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L31           0 METALLOPROTEINASE AND L22

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     (FILE 'HOME' ENTERED AT 13:51:30 ON 02 DEC 2000)

     FILE 'MEDLINE' ENTERED AT 13:51:39 ON 02 DEC 2000
L1            26 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN
L2             0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN (S)
L3             0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN (S)
L4             1 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN (S)
L5             0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN AND
L6             0 S (METALLOPROTEINASE OR MATALLOPROTEASE) (S) THROMBOSPONDIN AND
L7            26 DUP REM L1 (0 DUPLICATES REMOVED)

     FILE 'CAPLUS' ENTERED AT 13:55:27 ON 02 DEC 2000

     FILE 'CAPLUS, MEDLINE, CONFSCI, USPATFULL, EMBASE, BIOSIS' ENTERED AT
     13:55:53 ON 02 DEC 2000
L8            24 S GON-1
L9            17 DUP REM L8 (7 DUPLICATES REMOVED)
L10            3 S L9 (S) NEMATODE
L11            4 S L9 AND NEMATODE
L12           17 DUP REM L10 L9 (3 DUPLICATES REMOVED)
L13            4 DUP REM L10 L11 (3 DUPLICATES REMOVED)
L14            0 S L8 AND L1
L15          127 S L1
L16            0 S L15 AND NEMATODE
L17         1777 S GONAD DEVELOPMENT
L18            0 S L17 AND L15
L19           26 S L17 AND NEMATODE
L20            3 S L17 AND NEMATODE AND REVIEW
L21          115 S GONAD DEVELOPMENT AND REVIEW
L22           93 S L21 NOT PY>1998
L23            0 S L22 AND ADAMTS-1
L24            0 S L21 AND ADAMTS-1
L25            0 S GONAD DEVELOPMENT AND ADAMTS-1
L26            6 S GONAD AND ADAMTS-1
L27            3 DUP REM L26 (3 DUPLICATES REMOVED)
L28            0 S PROCOLLAGEN-1 N-COLLAGENASE
L29            0 S (PROCOLLAGEN-1 N-PRTEASE) OR (PROCOLLAGEN-1 N-PROTEINAS)
L30            0 S (PROCOLLAGEN-1 N-PROTEASE) OR (PROCOLLAGEN-1 N-PROTEINASE)
L31            0 S METALLOPROTEINASE AND L22

=> logoff hold

COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY     SESSION
FULL ESTIMATED COST                                     130.24      132.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                         ENTRY     SESSION
CA SUBSCRIBER PRICE                                      -8.35       -8.35

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:15:22 ON 02 DEC 2000
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DT Journal
LA English
AB In the nematode C. elegans, the **gonad** acquires a U-shape by the directed migration of a specialized leader cell, which is located at the tip of the growing gonadal arm. The gon-1 gene is essential for gonadal morphogenesis: in gon-1 mutants, no arm elongation occurs and somatic gonadal structures are severely malformed. Here we report that gon-1 encodes a secreted protein with a metalloprotease domain and multiple thrombospondin type-1-like repeats. This motif architecture is typical of a small family of genes that include bovine procollagen I N-protease (P1NP), which cleaves collagen, and murine **ADAMTS-1**, the expression of which correlates with tumor cell progression. We find that gon-1 is expressed in 2 sites, leader cells and muscle, and that expression in each site has a unique role in forming the **gonad**. We speculate that GON-1 controls morphogenesis by remodelling basement membranes and that regulation of its activity is crucial for achieving organ shape.
RE.CNT 54
RE
(2) Anderson, P; C elegans II 1997, P185 CAPLUS
(4) Aronson, B; Proc Natl Acad Sci USA 1994, V91, P7683 CAPLUS
(5) Aronson, B; Science 1994, V263, P1578 CAPLUS
(6) Arpaia, G; Plant Physiol 1993, V102, P1299 CAPLUS
(12) Cha, J; Biochemistry 1997, V36, P16019 CAPLUS
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